

Table 1C
2016 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Demographic Indicators ⁽²⁾

Run Date: 04/05/2017

Total Records	Number	%	Source of Data	Number	%
Complete Records	43,038	71.6	WIC	60,143	100.0
Prenatal Records	3,964	6.6	Maternal Health	0	0.0
Postpartum Records	13,141	21.8	Other	0	0.0
Total Records Accepted	60,143		Total	60,143	100.0
			<i>Excluded Unknown:</i>	<i>0</i>	<i>0.0</i>

Race/Ethnic Distribution	Number	%	Age Distribution	Number	%	Education Distribution	Number	%
White, Not Hispanic	32,209	53.8	< 15 Years	87	0.1	> High School	18,503	31.3
Black, Not Hispanic	17,396	29.1	15 - 17 Years	1,811	3.0	High School	26,502	44.9
Hispanic	6,378	10.7	18 - 19 Years	4,737	7.9	< High School	14,048	23.8
American Indian/Alaska Native	183	0.3	20 - 29 Years	38,125	63.5	Total	59,053	100.0
Asian/Pacific Islander	1,258	2.1	30 - 39 Years	14,232	23.7	<i>Excluded Unknown:</i>	<i>1,090</i>	<i>1.8</i>
Multiple Races	2,389	4.0	>= 40 Years	1,063	1.8			
All Other	0	0.0	Total	60,055	100.0			
Total	59,813	100.0	<i>Excluded Unknown:</i>	<i>88</i>	<i>0.1</i>			
<i>Excluded Unknown:</i>	<i>326</i>	<i>0.5</i>						

Poverty Level	Number	%	Program Participation (3)	Number	%	Migrant Status	Number	%
0 - 50	17,678	37.7	WIC	47,002	100.0	Yes	514	0.9
51 - 100	12,931	27.5	SNAP	46,950	50.1	No	59,629	99.1
101 - 130	5,653	12.0	Medicaid	46,932	88.4	Total	60,143	100.0
131 - 150	2,814	6.0	Tanf	46,975	5.7	<i>Excluded Unknown:</i>	<i>0</i>	<i>0.0</i>
151 - 185	3,715	7.9	Excluded Unknown:					
186 - 200	1,063	2.3	WIC:	0	0.0			
> 200	2,812	6.0	SNAP:	0	0.0			
Adjunctive Eligibility	276	0.6	Medicaid:	0	0.0			
Total	46,942	100.0	Tanf:	0	0.0			
<i>Excluded Unknown:</i>	<i>13,239</i>	<i>22.0</i>						

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Prenatal program participation

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 2C
2016 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Health Indicators

Run Date: 04/05/2017

Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Prepregnancy BMI (3)				
Underweight	51,019	4.4	120,948	4.3
Normal Weight	51,019	37.5	120,948	37.9
Overweight	51,019	24.8	120,948	24.8
Obese	51,019	33.4	120,948	33.1
Maternal Weight Gain (4)				
Less Than Ideal	33,141	19.4	96,895	20.6
Ideal	33,141	29.4	96,895	28.5
Greater Than Ideal	33,141	51.2	96,895	50.9
Anemia (Low Hb/Hct) (5)				
1st Trimester	18,954	11.7	40,589	6.1
2nd Trimester	17,145	17.6	37,016	8.0
3rd Trimester	9,642	45.1	26,281	32.1
Postpartum	12,155	34.6	37,350	28.5
Parity (6)				
0	59,377	35.2	132,704	40.5
1	59,377	29.8	132,704	28.2
2	59,377	18.6	132,704	17.6
>= 3	59,377	16.4	132,704	13.6
Interpregnancy Interval				
<= 6 Months	37,584	12.5	78,306	12.1
6 - <18 Months	37,584	26.6	78,306	26.0
>= 18 Months	37,584	60.9	78,306	61.9
Gestational Diabetes	55,467	6.8	119,602	5.7
Hypertension During Pregnancy	55,501	10.9	119,622	7.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) Number of times a woman has given birth to an infant 20 or more weeks gestation

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 2C
2016 Pregnancy Nutrition Surveillance
Michigan
Summary of Health Indicators

(1)

Run Date: 04/05/2017

Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Medical Care				
1st Trimester	54,902	82.2	107,398	79.6
No Care	54,902	8.4	107,398	11.2
WIC Enrollment				
1st Trimester	59,192	32.4	128,068	32.1
2nd Trimester	59,192	29.7	128,068	29.4
3rd Trimester	59,192	16.9	128,068	20.3
Postpartum (3)	59,192	21.1	128,068	18.3
Prepregnancy Multivitamin Consumption (4)	46,023	20.1	101,348	18.4
Multivitamin Consumption During Pregnancy (5)	46,578	87.4	98,273	87.7
Smoking				
3 Months Prior to Pregnancy	53,738	28.6	137,210	28.8
During Pregnancy	46,609	16.9	114,082	20.6
Last 3 Months of Pregnancy	55,530	15.1	134,524	16.4
Postpartum	55,553	16.0	134,525	17.2
Smoking Changes (6)				
Quit Smoking by First Prenatal Visit	13,947	44.1	34,081	39.5
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	12,776	39.3	29,612	36.7
Smoking in Household				
During Pregnancy	46,598	11.9	105,473	16.2
Postpartum	55,576	3.4	126,803	7.8
Drinking				
3 Months Prior to Pregnancy	53,668	18.5	137,016	13.8
Last 3 Months of Pregnancy	55,588	0.5	128,007	0.4

(1) Reporting period is January 1 through December 31
(2) Excludes records with unknown data errors.
(3) Women who initially enrolled in WIC during the postpartum period.
(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy, proxy for folic acid consumption.
(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.
(6) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 2C

2016

Pregnancy Nutrition Surveillance

(1)

Run Date: 04/05/2017

Michigan

Summary of Health Indicators

Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Birthweight (3)				
Very Low	52,145	1.5	114,229	1.4
Low	52,145	8.3	114,229	7.8
Normal	52,145	83.3	114,229	83.7
High	52,145	6.9	114,229	7.2
Preterm (4)	53,729	12.3	105,359	11.9
Full term Low Birth Weight (5)	45,194	4.2	90,193	3.7
Multiple Births	55,257	1.8	127,661	1.5
Brestfeeding				
Ever Breastfed	52,507	66.2	114,725	70.2

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

(4) <37 weeks gestation.

(5) 37 or more weeks gestation <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 3C

2016 Pregnancy Nutrition Surveillance (1)

Michigan

Run Date: 04/05/2017

Comparison of Racial Ethnic Distribution by Contributor to Nation

Comparison of Racial and Ethnic Distribution (2)								
	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Michigan	60,139	53.6	28.9	10.6	0.3	2.1	4.0	0.5
Nation (Prior Year)	144,442	56.2	24.5	12.4	0.5	2.8	3.0	0.7

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 4C

2016 Pregnancy Nutrition Surveillance (1)

Run Date: 04/05/2017

Michigan

Comparison of Age Distribution by Contributor to Nation

Comparison of Age Distribution (2)								
	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Michigan	60,143	0.1	3.0	7.9	63.4	23.7	1.8	0.1
Nation (Prior Year)	144,449	0.2	3.4	9.2	63.6	22.1	1.4	0.1

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 5C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Comparison of Maternal Health Indicators by Contributor to Nation

Comparison of Maternal Health Indicators (2)														
	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight	Over-weight		< Ideal	> Ideal	3rd Trimester		Postpartum						
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Michigan	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,155	34.6	55,467	6.8	55,501	10.9
Nation (Prior Year)	120,948	4.3	57.8	96,895	20.6	50.9	26,281	32.1	37,350	28.5	119,602	5.7	119,622	7.5

(1) Reporting period is January 1 through December 31
(2) Excludes records with unknown data errors.
(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).
(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).
(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 6C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Comparison of Maternal Behavioral Indicators by Contributor to Nation

Comparison of Maternal Behavioral Indicators ⁽²⁾									
	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy ⁽³⁾		During Pregnancy ⁽⁴⁾	
	Number	%	%	Number	%	Number	%	Number	%
Michigan	54,902	82.2	8.4	59,192	32.4	46,023	20.1	46,578	87.4
Nation (Prior Year)	107,398	79.6	11.2	128,068	32.1	101,348	18.4	98,273	87.7

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Woman who reported taking a multivitamin four times a weeks or more in the month before pregnancy: proxy for folic acid consumption.
(4) Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.
* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 7C
2016 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by Contributor to Nation

Run Date: 04/05/2017

Comparison of Smoking Indicators ⁽²⁾										
	Smoking		Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)	Smoking in Household						
	3 Months Prior to Pregnancy	Last 3 Months of Pregnancy		Prenatal	Postpartum					
	Number	%	Number	%	Number	%				
Michigan	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
Nation (Prior Year)	137,210	28.8	134,524	16.4	29,612	36.7	105,473	16.2	126,803	7.8

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 8C

2016 Pregnancy Nutrition Surveillance⁽¹⁾

Michigan

Run Date: 04/05/2017

Comparison of Infant Health Indicators by Contributor to Nation

Comparison of Infant Health Indicators ⁽²⁾									
	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)		High (4)						
	Number	%	%	Number	%	Number	%	Number	%
Michigan	52,145	9.8	6.9	53,729	12.3	45,194	4.2	52,507	66.2
Nation (Prior Year)	114,229	9.1	7.2	105,359	11.9	90,193	3.7	114,725	60.5

(1) Reporting period is January 1 through December 31
(2) Excludes records with unkown data errors.
(3) <2500 g.
(4) >4000 g.
(5) <37 weeks gestation.
(6) 37 or more weeks gestation and <2500 g.
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 9C
2016 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan

Run Date: 04/05/2017

Maternal Health Indicators by Race/Ethnicity, Age, or Education

Maternal Health Indicators by Race/Ethnicity, Age, or Education														(2)	
	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				Gestational Diabetes		Hypertension During Pregnancy		
	Under-Weight	Over-Weight		< Ideal	>Ideal	3rd Trimester		Postpartum							
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%	
Race/Ethnicity															
White, Not Hispanic	27,427	4.8	55.7	17,582	17.8	52.5	4,843	35.9	7,138	27.3	29,777	6.9	29,804	10.3	
Black, Not Hispanic	14,954	3.9	62.3	10,223	19.5	51.9	3,280	59.2	3,002	52.1	16,282	5.5	16,283	13.6	
Hispanic	5,372	3.1	62.6	3,323	24.8	44.2	935	45.3	1,157	33.9	5,830	8.9	5,835	8.5	
American Indian/Alaska Native	156	3.2	63.5	78	*	*	22	*	42	*	161	8.1	161	12.4	
Asian/Pacific Islander	1,003	7.7	37.9	610	30.7	30.7	183	40.4	298	29.9	1,180	14.6	1,181	5.5	
Multiple Races	2,084	4.7	58.0	1,318	19.8	54.9	376	41.2	510	35.9	2,225	6.2	2,225	9.7	
All Other/Unknown	20	*	*	6	*	*	3	*	7	*	9	*	9	*	
Total	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,155	34.6	55,467	6.8	55,501	10.9	
Age															
< 15 Years	72	*	*	46	*	*	9	*	6	*	78	*	78	*	
15 - 17 Years	1,564	9.3	34.3	992	21.0	48.4	283	50.5	299	48.8	1,663	2.2	1,665	11.1	
18 - 19 Years	4,136	7.4	45.0	2,621	19.0	52.7	752	51.7	834	43.8	4,295	2.5	4,291	10.5	
20 - 29 Years	32,505	4.5	57.2	21,362	19.0	51.5	6,483	45.0	7,590	35.2	35,292	5.3	35,306	9.9	
30 - 39 Years	11,847	2.6	67.5	7,609	19.9	50.6	1,974	42.4	3,171	29.2	13,138	12.2	13,158	13.3	
>= 40 Years	833	1.4	72.9	481	26.2	44.7	133	38.3	233	32.2	918	19.1	920	18.2	
Unknown	62	*	*	30	*	*	8	*	22	*	83	*	83	*	
Total	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,155	34.6	55,467	6.8	55,501	10.9	
Education															
< High School	11,618	5.8	53.3	7,173	23.8	46.3	2,198	51.3	2,477	41.7	12,906	6.3	12,918	9.5	
High School	22,695	4.5	58.3	14,910	18.9	52.1	4,374	45.7	5,003	35.9	24,697	6.5	24,709	11.0	
> High School	16,084	3.2	61.6	10,719	17.1	53.2	2,984	39.5	4,456	29.2	17,158	7.7	17,167	11.9	
Excluded Unknown	622	4.5	53.5	339	20.1	52.2	86	*	219	32.0	706	7.6	707	10.7	
Total	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,155	34.6	55,467	6.8	55,501	10.9	

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 10C
2016 Pregnancy Nutrition Surveillance (1)

Run Date: 04/05/2017

Michigan

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education (2)								
	Medical Care			WIC Enrollment		Multivitamin Consumption		
	1st Trimester	No Care		1st Trimester		Prepregnancy (3)	During Pregnancy (4)	
	Number	%	%	Number	%	Number	%	Number
Race/Ethnicity								
White, Not Hispanic	29,471	83.8	9.8	31,689	36.0	25,874	23.1	25,254
Black, Not Hispanic	16,144	80.4	4.8	17,150	23.5	12,290	13.8	13,010
Hispanic	5,744	79.0	11.7	6,262	38.5	4,818	19.7	5,261
American Indian/Alaska Native	162	84.6	5.6	182	40.7	155	28.4	152
Asian/Pacific Islander	1,164	84.8	7.6	1,240	31.2	977	20.1	968
Multiple Races	2,205	81.0	9.2	2,349	34.6	1,886	21.2	1,919
All Other/Unknown	9	*	*	316	6.0	19	*	10
Total	54,902	82.2	8.4	59,192	32.4	46,023	20.1	46,578
Age								
< 15 Years	77	*	*	83	*	71	*	80
15 - 17 Years	1,638	67.8	11.4	1,783	34.0	1,449	8.0	1,557
18 - 19 Years	4,243	78.2	10.5	4,683	35.6	3,801	10.2	4,001
20 - 29 Years	34,937	83.2	7.8	37,527	30.8	28,747	18.9	29,324
30 - 39 Years	13,012	83.0	8.8	13,992	34.9	11,045	27.7	10,739
>= 40 Years	911	80.8	10.0	1,039	38.1	836	27.2	809
Unknown	84	*	*	85	*	74	*	68
Total	54,902	82.2	8.4	59,192	32.4	46,023	20.1	46,578
Education								
< High School	12,727	76.0	10.3	13,764	34.0	10,160	13.6	11,169
High School	24,427	82.3	8.4	26,135	32.8	20,153	18.2	20,854
> High School	17,052	86.7	7.1	18,231	31.1	15,093	27.1	14,036
Excluded Unknown	696	83.9	8.3	1,062	23.7	617	19.6	519
Total	54,902	82.2	8.4	59,192	32.4	46,023	20.1	46,578

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

(3) Woman who reported taking a multivitamin four a weeks or more in the month before pregnancy. proxy for folic acid consumption.

(4) Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 11C
2016 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Smoking Indicators by Race/Ethnicity, Age, or Education

Run Date: 04/05/2017

Comparison of Smoking Indicators ⁽²⁾										
	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
Race/Ethnicity										
White, Not Hispanic	29,428	35.6	29,826	20.8	8,628	33.1	25,257	12.4	29,852	3.0
Black, Not Hispanic	15,021	20.9	16,280	8.1	2,669	55.8	13,003	13.6	16,292	4.6
Hispanic	5,775	14.7	5,846	6.0	721	53.5	5,271	6.1	5,850	1.7
American Indian/Alaska Native	168	48.8	160	26.9	62	*	152	16.4	161	6.8
Asian/Pacific Islander	1,176	3.6	1,182	1.1	36	*	977	3.0	1,182	1.2
Multiple Races	2,147	36.0	2,224	19.5	660	37.7	1,924	14.5	2,227	3.8
All Other/Unknown	19	*	9	*	0	*	10	*	9	*
Total	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
Race/Ethnicity										
< 15 Years	85	*	79	*	6	*	80	*	79	*
15 - 17 Years	1,758	20.0	1,666	6.5	307	57.0	1,558	26.3	1,666	7.1
18 - 19 Years	4,468	27.8	4,301	11.1	1,046	52.0	4,002	20.3	4,300	5.5
20 - 29 Years	33,590	30.0	35,308	15.6	8,488	40.1	29,326	11.4	35,353	3.2
30 - 39 Years	12,762	27.5	13,172	16.5	2,794	30.4	10,752	8.3	13,170	2.7
>= 40 Years	993	19.2	920	11.8	129	27.1	812	8.9	924	2.8
Unknown	82	*	84	*	6	*	68	*	84	*
Total	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
Race/Ethnicity										
< High School	12,219	35.9	12,921	21.6	3,666	32.7	11,176	15.6	12,944	4.6
High School	23,721	30.9	24,713	16.0	6,182	40.2	20,858	12.4	24,731	3.6
> High School	17,075	20.5	17,184	9.0	2,827	46.1	14,043	8.2	17,189	2.2
Excluded Unknown	723	20.6	712	10.1	101	32.7	521	12.5	712	2.2
Total	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 12C
2016 Pregnancy Nutrition Surveillance (1)

Run Date: 04/05/2017

Michigan
Infant Health Indicators by Race/Ethnicity, Age, or Education

Infant Health Indicators by Race/Ethnicity, Age, or Education (2)									
	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)	High (4)							
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	27,800	8.0	8.8	28,754	11.1	24,437	3.2	28,125	70.6
Black, Not Hispanic	15,487	13.8	3.5	15,903	15.3	12,985	6.3	15,497	54.6
Hispanic	5,469	7.5	7.8	5,590	11.1	4,797	3.7	5,496	72.3
American Indian/Alaska Native	149	3.4	12.1	158	8.2	136	1.5	150	73.3
Asian/Pacific Islander	1,112	10.6	4.5	1,159	11.8	972	5.1	1,127	74.4
Multiple Races	2,119	9.1	6.4	2,155	11.2	1,860	4.0	2,102	70.7
All Other/Unknown	7	*	*	8	*	5	*	8	*
Total	52,145	9.8	6.9	53,729	12.3	45,194	4.2	52,507	66.2
Age									
< 15 Years	76	*	*	74	*	56	*	76	*
15 - 17 Years	1,581	8.2	4.6	1,630	12.5	1,368	4.3	1,589	59.7
18 - 19 Years	4,089	8.0	5.2	4,213	11.2	3,597	3.8	4,108	65.6
20 - 29 Years	33,375	8.0	6.7	34,310	11.5	29,199	4.2	33,584	66.6
30 - 39 Years	12,163	9.2	8.3	12,595	14.6	10,276	4.3	12,273	66.2
>= 40 Years	786	11.6	7.6	829	18.9	627	5.9	798	63.7
Unknown	75	*	*	78	*	71	*	79	*
Total	52,145	9.8	6.9	53,729	12.3	45,194	4.2	52,507	66.2
Education									
< High School	11,898	9.8	5.4	12,413	13.6	10,111	5.2	12,086	55.5
High School	23,319	8.0	6.8	23,973	12.1	20,296	4.2	23,453	64.3
> High School	16,283	7.6	8.2	16,661	11.8	14,221	3.5	16,299	76.4
Excluded Unknown	645	8.1	6.8	682	10.9	566	4.6	669	75.6
Total	52,145	9.8	6.9	53,729	12.3	45,194	4.2	52,507	66.2

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 13C
2016 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan

Run Date: 04/05/2017

Maternal Weight Gain and Birth Outcomes by Select Health Indicators

Maternal Weight Gain and Birth Outcomes by Select Health Indicators ⁽²⁾										
	Weight Gain ⁽³⁾			Birthweight			Preterm ⁽⁶⁾		Full Term LBW ⁽⁷⁾	
	< Ideal		> Ideal	Low ⁽⁴⁾		High ⁽⁵⁾				
	Number	%	%	Number	%	%	Number	%	Number	%
Prepregnancy BMI										
Underweight	1,496	31.3	25.9	1,964	17.0	2.6	2,022	15.7	1,642	8.8
Normal Weight	12,696	23.7	41.3	16,780	10.1	4.8	17,227	11.8	14,640	4.6
Overweight	8,231	11.2	62.3	11,151	9.0	7.2	11,449	11.8	9,719	3.8
Obese	10,718	18.9	57.9	15,082	8.5	9.6	15,387	12.4	13,047	3.3
Weight Gain										
< Ideal	-	-	-	5,973	17.1	3.1	6,135	17.7	4,866	8.0
Ideal	-	-	-	9,393	10.1	4.9	9,588	12.1	8,177	4.6
> Ideal	-	-	-	16,358	6.7	9.7	16,697	9.9	14,578	2.8
Smoking During Pregnancy										
Smokers	4,052	22.0	49.0	6,519	12.0	4.3	6,820	13.2	5,653	6.4
Non-Smokers	19,625	18.4	51.9	33,514	8.2	7.7	34,640	11.5	29,555	3.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 14C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Racial Ethnic Distribution

Summary of Trends in Racial and Ethnic Distribution (2)								
Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
2016	60,139	53.6	28.9	10.6	0.3	2.1	4.0	0.5
2015	63,086	54.0	29.0	10.2	0.4	2.1	3.6	0.8
2014	65,941	55.7	28.0	9.7	0.4	2.0	3.6	0.6
2013	67,256	55.5	28.3	9.9	0.4	2.0	3.5	0.6
2012	67,977	56.2	27.5	10.0	0.4	1.9	3.4	0.6
2011	68,267	57.0	27.3	10.0	0.4	1.7	2.9	0.6
2010	68,559	56.7	27.5	10.4	0.3	1.7	2.6	0.7

(1) Reporting period is January 1 through December 31
(2) Excludes records with unknown data errors.
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 15C
2016 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Age Distribution

Run Date: 04/05/2017

Summary of Trends in Age Distribution (2)								
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
2016	60,143	0.1	3.0	7.9	63.4	23.7	1.8	0.1
2015	63,091	0.1	3.2	8.4	63.8	22.8	1.6	0.2
2014	65,945	0.2	3.4	9.1	63.5	22.1	1.7	0.2
2013	67,261	0.2	3.9	9.8	63.1	21.2	1.6	0.2
2012	67,977	0.2	4.5	10.7	62.2	20.5	1.5	0.3
2011	68,267	0.2	4.9	11.5	61.7	19.9	1.5	0.3
2010	68,559	0.2	5.6	12.6	60.6	19.2	1.4	0.4

(1) Reporting period is January 1 through December 31
(2) Excludes records with unknown data errors.
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 16C

2016 Pregnancy Nutrition Surveillance

Michigan

Summary of Trends in Maternal Health Indicators

(1)

Run Date: 04/05/2017

Summary of Trends in Maternal Health Indicators (2)										
Year	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
2016	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,155	34.6
2015	53,599	4.4	56.8	44,460	19.6	50.7	9,750	41.4	12,308	31.6
2014	56,540	4.3	56.3	45,714	17.2	52.3	9,959	39.6	12,485	28.7
2013	58,063	4.3	56.0	46,728	16.9	52.4	9,903	38.9	11,995	28.7
2012	61,321	4.4	54.9	48,759	17.4	51.3	9,736	38.4	12,636	27.9
2011	62,449	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,689	27.5
2010	62,806	4.3	54.7	47,992	18.1	50.9	9,772	35.9	14,361	27.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 17C
2016 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Maternal Behavioral Indicators

Run Date: 04/05/2017

Summary of Maternal Behavioral Indicators (2)					
Year	Medical Care			WIC Enrollment	
	1st Trimester		No Care	1st Trimester	
	Number	%	%	Number	%
2016	54,902	82.2	8.4	59,192	32.4
2015	57,566	81.1	9.4	62,186	34.1
2014	60,317	79.7	10.8	64,954	35.7
2013	61,039	79.9	10.5	66,266	36.9
2012	61,308	79.8	10.6	67,036	38.0
2011	60,703	81.1	9.2	67,132	36.7
2010	58,935	80.9	8.9	67,582	37.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Prenatal program participation

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 18C
2016 Pregnancy Nutrition Surveillance (1)

Run Date: 04/05/2017

Michigan
Summary of Trends in Smoking Indicators

Summary of Trends in Smoking Indicators ⁽²⁾										
Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
2016	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
2015	56,865	30.6	58,232	15.8	14,578	39.6	49,639	13.4	58,251	4.2
2014	60,217	32.0	61,120	16.4	16,301	39.4	52,726	14.6	61,124	4.5
2013	62,025	32.3	61,793	16.8	18,044	36.4	54,649	15.1	61,835	5.0
2012	63,072	32.4	61,988	16.9	16,769	38.6	55,380	16.0	61,994	4.9
2011	64,048	32.8	61,427	16.9	16,751	39.5	55,786	16.8	61,403	5.5
2010	64,920	32.9	59,649	17.3	16,257	37.9	56,370	17.9	59,648	6.1

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Prenatal program participation

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 19C
2016 Pregnancy Nutrition Surveillance
Michigan
Summary of Trends in Infant Health Indicators

(1)

Run Date:

04/05/2017

Summary of Trends in Infant Health Indicators (2)									
Year	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (3)		High (4)	(5)		(6)			
	Number	%	%	Number	%	Number	%	Number	%
2016	52,145	9.8	6.9	53,729	12.3	45,194	4.2	52,507	66.2
2015	54,690	9.7	6.9	56,519	11.9	47,822	4.2	54,824	65.1
2014	57,572	9.0	7.0	59,292	11.8	50,471	3.8	57,574	63.6
2013	58,028	8.7	7.2	59,882	11.5	50,981	3.7	58,101	63.1
2012	58,368	8.8	7.3	60,111	12.1	50,877	3.7	58,753	61.2
2011	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,401	60.5
2010	56,075	8.5	7.2	57,799	12.0	48,927	3.6	56,127	59.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C
2016 Pregnancy Nutrition Surveillance
Michigan

(1)

Run Date:

04/05/2017

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)		
		Under-Weight		Over-Weight	< Ideal		>Ideal	3rd Trimester		Postpartum
		Number	%	%	Number	%	%	Number	%	Number %
White, Not Hispanic										
	2016	27,427	4.8	55.7	17,582	17.8	52.5	4,843	35.9	7,138 27.3
	2015	29,193	4.8	54.7	24,338	18.2	51.9	4,999	31.7	7,321 24.6
	2014	31,771	4.7	53.8	25,693	15.5	53.8	5,165	30.6	7,430 22.2
	2013	32,226	4.6	53.6	25,830	15.1	53.9	5,130	28.8	7,346 21.8
Black, Not Hispanic										
	2016	14,954	3.9	62.3	10,223	19.5	51.9	3,280	59.2	3,002 52.1
	2015	15,902	4.2	60.2	13,238	20.2	51.2	3,363	58.0	3,040 49.8
	2014	16,219	3.9	60.9	13,406	18.5	52.2	3,417	54.7	3,075 45.9
	2013	16,964	3.9	60.3	13,962	18.4	53.2	3,403	54.8	2,891 45.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Pregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-Weight		Over-Weight	< Ideal		>Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Hispanic											
2016		5,372	3.1	62.6	3,323	24.8	44.2	935	45.3	1,157	33.9
2015		5,334	2.4	62.0	4,308	24.0	44.5	840	34.4	1,156	30.2
2014		5,293	2.2	62.5	4,053	21.9	46.0	810	33.7	1,170	25.3
2013		5,481	2.6	62.2	4,256	21.1	44.9	796	38.2	1,000	31.7
American Indian/Alaska Native											
2016		156	3.2	63.5	78	*	*	22	*	42	*
2015		206	3.9	59.2	165	20.0	47.3	33	*	41	*
2014		191	4.7	53.4	139	23.7	55.4	21	*	50	*
2013		232	3.4	54.3	169	16.6	51.5	22	*	35	*

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-Weight		Over-Weight	< Ideal		>Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Asian/Pacific Islander											
	2016	1,003	7.7	37.9	610	30.7	30.7	183	40.4	298	29.9
	2015	974	9.0	34.6	769	27.8	34.7	172	29.1	294	26.2
	2014	986	9.0	32.0	785	27.1	30.7	187	34.8	289	26.3
	2013	1,094	10.1	29.6	865	27.1	31.0	185	28.6	287	22.6
Multiple Races											
	2016	2,084	4.7	58.0	1,318	19.8	54.9	376	41.2	510	35.9
	2015	1,981	4.3	56.2	1,636	19.6	52.7	342	42.1	453	28.5
	2014	2,069	4.7	55.8	1,630	16.9	54.5	358	42.5	470	30.0
	2013	2,056	4.8	54.8	1,639	16.3	52.7	365	39.5	435	32.6

(1) Reporting period is January 1 through December 31
(2) Excludes records with unknown data errors.
(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).
(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).
(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)												
Race/Ethnicity and Year		Pregpregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				
		Under-Weight		Over-Weight	< Ideal		>Ideal	3rd Trimester		Postpartum		
		Number	%	%	Number	%	%	Number	%	Number	%	
All Other/Unknown		2016	20	*	*	6	*	*	3	*	7	*
		2015	6	*	*	3	*	*	0	*	2	*
		2014	7	*	*	5	*	*	0	*	1	*
		2013	7	*	*	4	*	*	1	*	1	*
Total All Race/Ethnic Groups		2016	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,155	34.6
		2015	53,599	4.4	56.8	44,460	19.6	50.7	9,750	41.4	12,308	31.6
		2014	56,540	4.3	56.3	45,714	17.2	52.3	9,959	39.6	12,485	28.7
		2013	58,063	4.3	56.0	46,728	16.9	52.4	9,903	38.9	11,995	28.7

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C
2016 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan

Run Date: 04/05/2017

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
White, Not Hispanic						
	2016	29,471	83.8	9.8	31,689	36.0
	2015	31,258	82.6	10.8	33,641	37.4
	2014	33,737	81.3	12.3	36,233	39.3
	2013	33,997	81.9	11.7	36,816	40.7
Black, Not Hispanic						
	2016	16,144	80.4	4.8	17,150	23.5
	2015	16,978	79.5	5.7	18,054	25.0
	2014	17,232	78.0	6.4	18,263	26.2
	2013	17,561	77.8	6.4	18,797	26.9

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Hispanic	2016	5,744	79.0	11.7	6,262	38.5
	2015	5,821	77.3	12.7	6,335	40.6
	2014	5,752	74.6	15.5	6,304	42.3
	2013	5,889	74.3	16.0	6,509	45.4
American Indian/Alaska Native	2016	162	84.6	5.6	182	40.7
	2015	205	82.0	9.8	227	37.0
	2014	207	80.7	11.6	227	46.3
	2013	217	81.1	10.1	243	49.8

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Asian/Pacific Islander						
	2016	1,164	84.8	7.6	1,240	31.2
	2015	1,221	84.0	8.5	1,298	33.7
	2014	1,213	82.8	10.1	1,304	33.8
	2013	1,247	83.6	8.3	1,343	35.9
Multiple Races						
	2016	2,205	81.0	9.2	2,349	34.6
	2015	2,077	79.5	10.6	2,240	36.7
	2014	2,170	78.8	11.5	2,360	37.4
	2013	2,121	78.9	10.7	2,304	37.4

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
All Other/Unknown	2016	9	*	*	316	6.0
	2015	1	*	*	386	42.2
	2014	2	*	*	259	6.6
	2013	3	*	*	249	4.0
Total All Race/Ethnic Groups	2016	54,902	82.2	8.4	59,192	32.4
	2015	57,566	81.1	9.4	62,186	34.1
	2014	60,317	79.7	10.8	64,954	35.7
	2013	61,039	79.9	10.5	66,266	36.9

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 22C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
White, Not Hispanic											
	2016	29,428	35.6	29,826	20.8	8,628	33.1	25,257	12.4	29,852	3.0
	2015	31,425	37.9	31,623	21.7	9,921	34.1	27,132	13.9	31,635	3.7
	2014	34,182	39.5	34,171	22.0	11,369	34.4	29,651	15.1	34,175	4.0
	2013	34,978	40.0	34,387	22.8	12,572	31.8	30,488	15.7	34,405	4.3
Black, Not Hispanic											
	2016	15,021	20.9	16,280	8.1	2,669	55.8	13,003	13.6	16,292	4.6
	2015	16,078	22.5	17,131	8.4	3,086	55.0	14,069	15.2	17,139	5.7
	2014	16,491	23.0	17,359	8.7	3,238	54.8	14,478	16.4	17,360	6.2
	2013	17,239	22.4	17,682	8.6	3,489	49.8	15,242	16.9	17,709	7.5

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 22C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Hispanic											
	2016	5,775	14.7	5,846	6.0	721	53.5	5,271	6.1	5,850	1.7
	2015	5,834	15.5	5,931	5.4	791	54.6	5,346	6.7	5,927	2.4
	2014	5,895	15.6	5,918	6.2	795	52.3	5,406	7.2	5,921	2.3
	2013	6,121	16.7	6,088	6.7	958	49.0	5,663	7.5	6,085	2.2
American Indian/Alaska Native											
	2016	168	48.8	160	26.9	62	*	152	16.4	161	6.8
	2015	197	52.8	207	41.1	82	*	172	26.7	206	8.3
	2014	213	45.5	206	32.5	89	*	197	22.3	205	11.2
	2013	232	52.2	217	34.6	117	21.4	211	20.4	214	8.4

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 22C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Asian/Pacific Islander											
2016		1,176	3.6	1,182	1.1	36	*	977	3.0	1,182	1.2
2015		1,240	3.8	1,244	1.2	39	*	1,041	3.4	1,244	1.4
2014		1,253	3.8	1,259	1.4	39	*	1,020	3.7	1,255	1.0
2013		1,293	5.5	1,264	1.3	64	*	1,084	3.0	1,265	1.6
Multiple Races											
2016		2,147	36.0	2,224	19.5	660	37.7	1,924	14.5	2,227	3.8
2015		2,085	37.6	2,090	21.6	657	33.9	1,874	16.6	2,094	5.2
2014		2,176	41.0	2,200	23.1	770	35.6	1,970	17.6	2,201	5.6
2013		2,154	42.9	2,147	24.1	842	33.4	1,956	20.2	2,149	6.5

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 22C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
All Other/Unknown											
	2016	19	*	9	*	0	*	10	*	9	*
	2015	2	*	1	*	0	*	1	*	1	*
	2014	3	*	3	*	0	*	0	*	3	*
	2013	4	*	3	*	0	*	1	*	3	*
Total All Race/Ethnic Groups											
	2016	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
	2015	56,865	30.6	58,232	15.8	14,578	39.6	49,639	13.4	58,251	4.2
	2014	60,217	32.0	61,120	16.4	16,301	39.4	52,726	14.6	61,124	4.5
	2013	62,025	32.3	61,793	16.8	18,044	36.4	54,649	15.1	61,835	5.0

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)	High (4)							
		Number	%	%	Number	%	Number	%	Number	%
White, Not Hispanic										
	2016	27,800	8.0	8.8	28,754	11.1	24,437	3.2	28,125	70.6
	2015	29,530	8.0	8.8	30,641	10.5	26,217	3.3	29,766	70.3
	2014	32,113	7.4	8.6	33,081	10.4	28,601	3.0	32,154	68.8
	2013	32,152	7.2	8.9	33,207	9.9	28,774	3.0	32,243	68.9
Black, Not Hispanic										
	2016	15,487	13.8	3.5	15,903	15.3	12,985	6.3	15,497	54.6
	2015	16,299	13.8	3.5	16,764	14.7	13,795	6.1	16,197	52.3
	2014	16,556	13.1	3.9	16,994	14.7	14,036	5.7	16,472	50.5
	2013	16,803	12.2	3.8	17,344	14.6	14,251	5.4	16,733	49.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
Hispanic										
	2016	5,469	7.5	7.8	5,590	11.1	4,797	3.7	5,496	72.3
	2015	5,550	7.1	8.0	5,687	11.3	4,875	3.1	5,569	70.9
	2014	5,500	6.3	8.0	5,671	11.4	4,837	2.6	5,541	69.1
	2013	5,665	6.9	8.3	5,812	11.8	4,956	2.8	5,696	67.2
American Indian/Alaska Native										
	2016	149	3.4	12.1	158	8.2	136	1.5	150	73.3
	2015	199	4.5	11.1	200	12.5	171	1.2	196	68.4
	2014	183	6.0	12.6	194	13.9	157	3.8	182	67.6
	2013	193	3.6	13.0	200	11.5	170	1.2	193	63.7

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Page: 36
Run Date: 04/05/2017

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
Asian/Pacific Islander										
	2016	1,112	10.6	4.5	1,159	11.8	972	5.1	1,127	74.4
	2015	1,160	9.7	4.0	1,199	10.5	1,027	6.1	1,154	76.9
	2014	1,153	10.5	5.0	1,206	10.9	1,017	6.0	1,170	73.2
	2013	1,187	7.9	3.8	1,218	11.2	1,048	3.6	1,200	73.4
Multiple Races										
	2016	2,119	9.1	6.4	2,155	11.2	1,860	4.0	2,102	70.7
	2015	1,947	8.7	6.5	2,022	10.2	1,733	4.1	1,937	68.5
	2014	2,060	8.9	6.7	2,140	11.4	1,817	3.8	2,048	65.5
	2013	2,021	8.9	6.4	2,094	11.4	1,777	3.9	2,029	66.3

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C
2016 Pregnancy Nutrition Surveillance (1)
Michigan

Run Date: 04/05/2017

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
All Other/Unknown										
	2016	7	*	*	8	*	5	*	8	*
	2015	0	*	*	1	*	0	*	0	*
	2014	3	*	*	2	*	2	*	3	*
	2013	3	*	*	2	*	2	*	3	*
Total All Race/Ethnic Groups										
	2016	52,145	9.8	6.9	53,729	12.3	45,194	4.2	52,507	66.2
	2015	54,690	9.7	6.9	56,519	11.9	47,822	4.2	54,824	65.1
	2014	57,572	9.0	7.0	59,292	11.8	50,471	3.8	57,574	63.6
	2013	58,028	8.7	7.2	59,882	11.5	50,981	3.7	58,101	63.1

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions